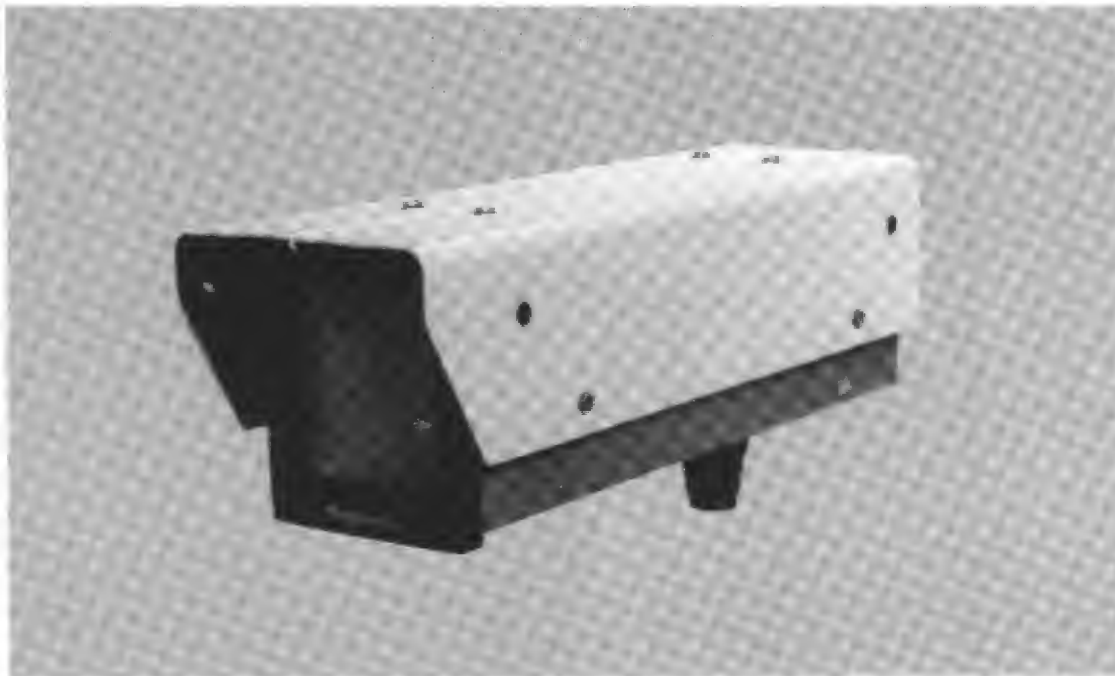


# Operating Instructions

Outdoor Camera Housing  
**WV-7140**



**Panasonic<sup>®</sup>**

Before attempting to connect or operate this product, please read these instructions completely.

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## INTRODUCTION

WV-7140 is an outdoor camera housing equipped with sunshield and to be installed an optional Fan/Heater Unit (WV-7141).

This can be mounted from the bottom on the optional Pan/Tilt Head Model WV-7260D.

## PRECAUTIONS

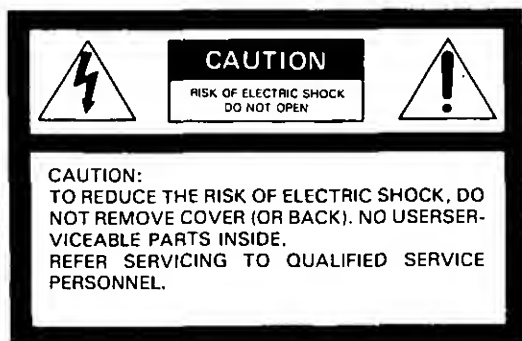
1. Use this unit within its rating.  
Designed for outdoor use.  
-22°F (-30°C) — [(Maximum ambient operating temperature using with the Fan/Heater unit WV-7141.)]
2. Select a flat location which can support the entire weight (camera, lens, bracket, etc).
3. The input power source must be  $24V_{-20}^{+10}\%$  (19.2 - 26.4V) AC 60 Hz.
4. Every necessary procedure with regard to install this product should be made by qualified Service Personnel or System Installers.
5. CONNECT TO 24V AC CLASS 2 SUPPLY ONLY.

**Caution:** To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used for the cable for AC 24V Input Terminal.

## PRECAUTIONS ON INSTALLATION

Camera: WV-BL204, BL604, BL90, CL110, CL304, CL704, CD24, BD404  
The maximum available capacity inside of the housing in combination of the camera and lens is approx.  
3-5/16"(H) x 3-7/8"(W) x 12-15/16"(D)  
85(H) x 100(W) x 330(D) mm

Mounting apparatus: WV-7260D (Pan/Tilt Head)



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.  
**Warning:**  
This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

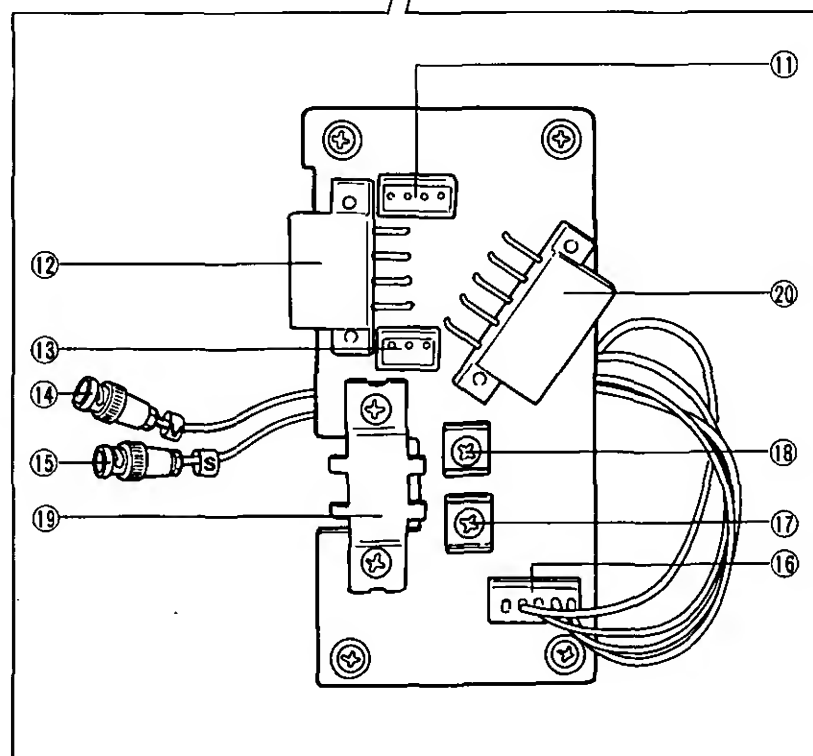
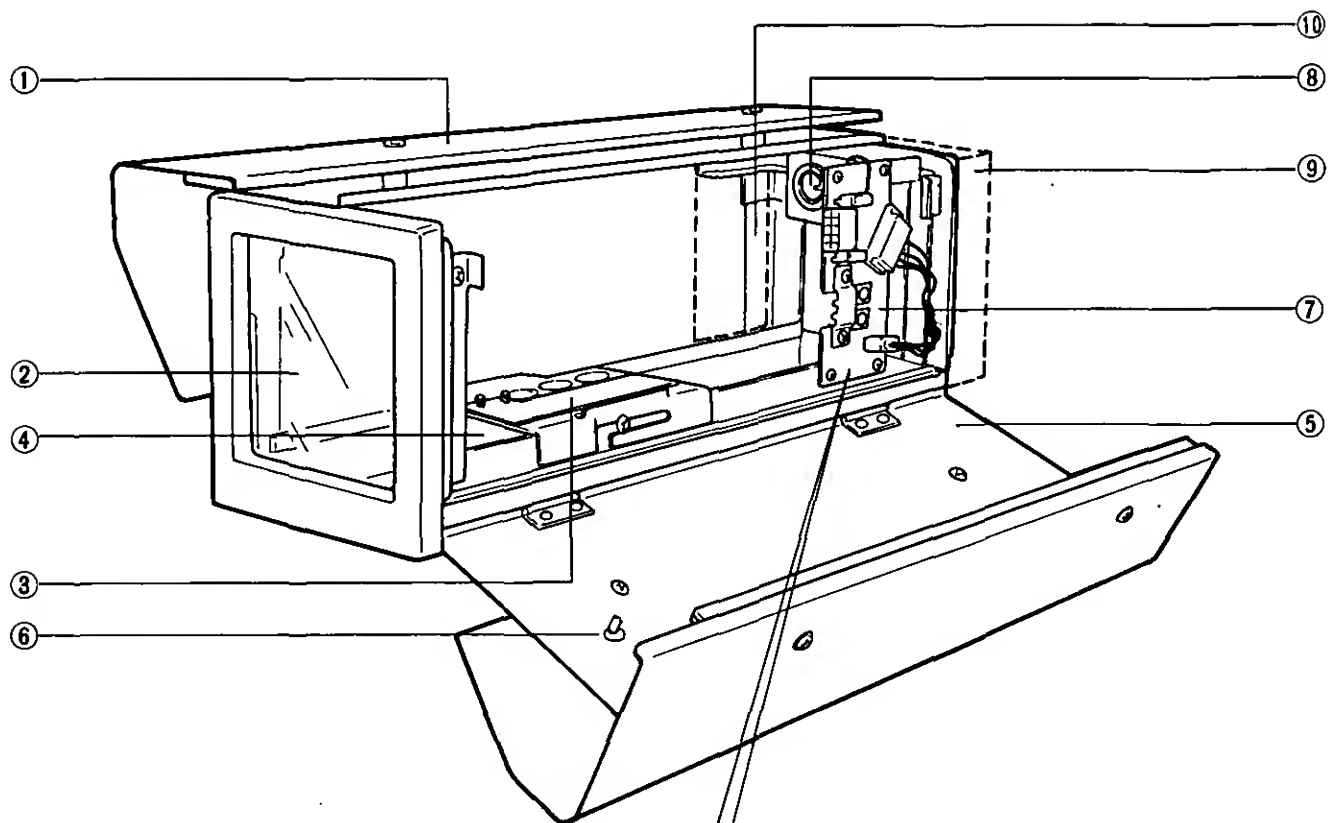
For CANADA  
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.  
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. WV-7140

Serial No. \_\_\_\_\_

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



- (1) Sunshield
- (2) Front Glass
- (3) Camera Mounting Plate
- (4) Heater Unit (Optional)
- (5) Cover
- (6) Cover Lock
- (7) Connection Board
- (8) Lens Connector
- (9) Fan Unit (Optional)
- (10) Sensor Board (Optional)
- (11) Connector for the Fan/Heater Unit (4p) - CN4
- (12) Housing Control - 1. (8p) - CN2
 

1. Camera Power	5. AC Common
2. Fan/Heater	6. N/C
3. N/C	7. N/C
4. N/C	8. GND
- (13) Camera Power Supply Connector (3p) - CN3
 

1. Camera Power
2. AC Common
3. GND
- (14) Video Connector - BNC (V)  
Connect to Video output of the camera.
- (15) Sync Connector - BNC (S)  
Connect to GEN LOCK input of the camera.
- (16) Connector for Zoom Lens (5p)
 

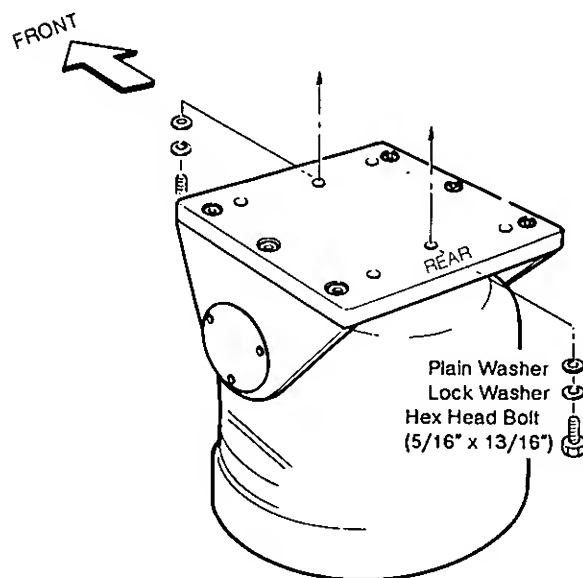
1. DC Common	4. Zoom Control
2. Iris Control	5. N/C
3. Focus Control	
- (17) Video Output Terminal
- (18) External Sync Input Terminal
- (19) GND
- (20) Housing Control - 2 (10p) - CN1
 

1. N/C	6. N/C
2. N/C	7. DC Common
3. N/C	8. Iris Control
4. N/C	9. Focus Control
5. N/C	10. Zoom Control

## INSTALLATION OF CAMERA HOUSING

When mounting the Camera Housing to the Pan/Tilt Head WV-7260D.

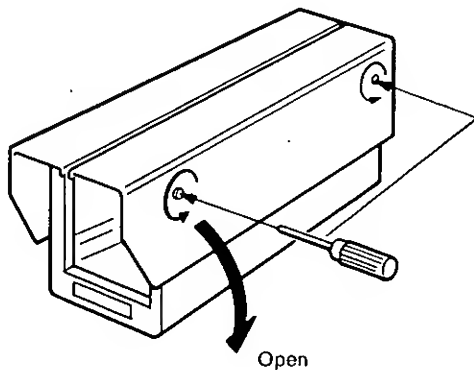
- Two M8 x 20 mm (5/16" x 13/16") hex head bolts, lockwashers and plain washers are provided with the Pan/Tilt Head. Use these to mount the camera housing as shown below.



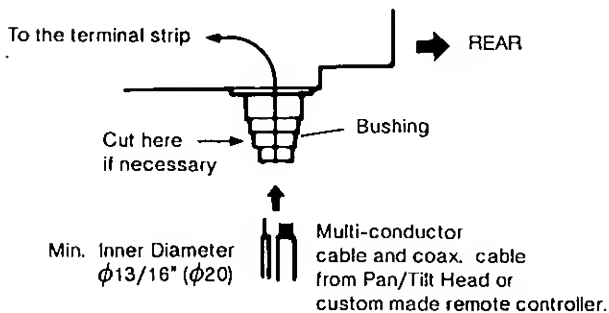
- Be sure to align the camera direction and front direction of Pan/Tilt Head.

## PREPARATION OF WIRING

1. Open the side cover with the flat head screw driver.



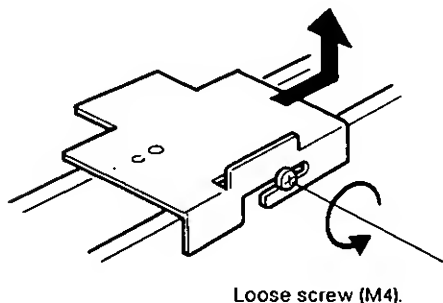
2. Decide the wiring hole size for the rubber bushing, then cut the bushing at the appropriate size. The minimum hole size is 13/16 (20 mm).



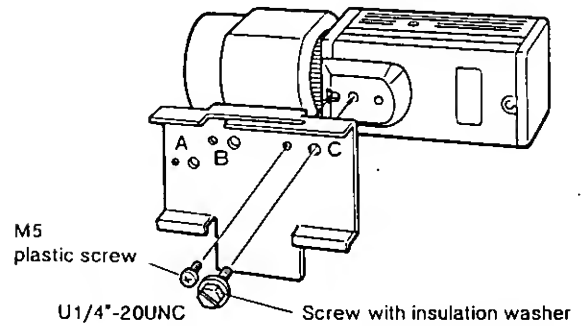
Pass the cables through the wiring hole.

## INSTALLATION OF CAMERA

1. Loose M4 screw to remove the camera mounting plate.

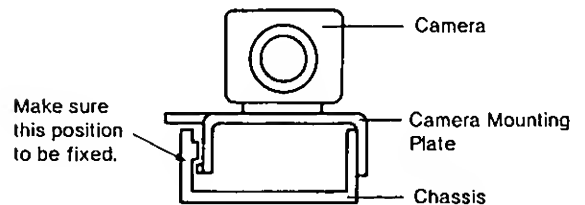


2. Fix the camera mounting plate on the bottom of the camera using two screws.



- M5 (plastic screw) is used as a stopper for the camera from rotating except WV-BL90, WV-CL110.
- This position should be changed by selection of the camera and lens.

- A: Cameras used with a fixed focus lens.  
 B: WV-BL90/WV-CL110 with WV-LZ81/6 lens.  
 C: Cameras with WV-LZ81/6 lens.



### CAUTION:

- Mount the camera (with mounting plate) on this unit carefully.
- When the camera LED reflects on the glass and the light comes in the screen, stick the Power Indicator Masking Label (accessory) on the LED.

## APPLICABLE CAMERAS AND LENSES

The recommended combination of the Panasonic camera and lens to WV-7140 is shown in the following table.

Camera \ Lens	for 1/2" camera		for 2/3" camera
	Fixed	WV-LZ81/6	Fixed
WV-CD24	-	-	o
WV-BD404	-	-	o
WV-BL204	•	o	•
WV-CL304	o	o	o
WV-BL604	o	o	o
WV-CL704	o	o	o
WV-BL90	•	•	x
WV-CL110	•	•	x

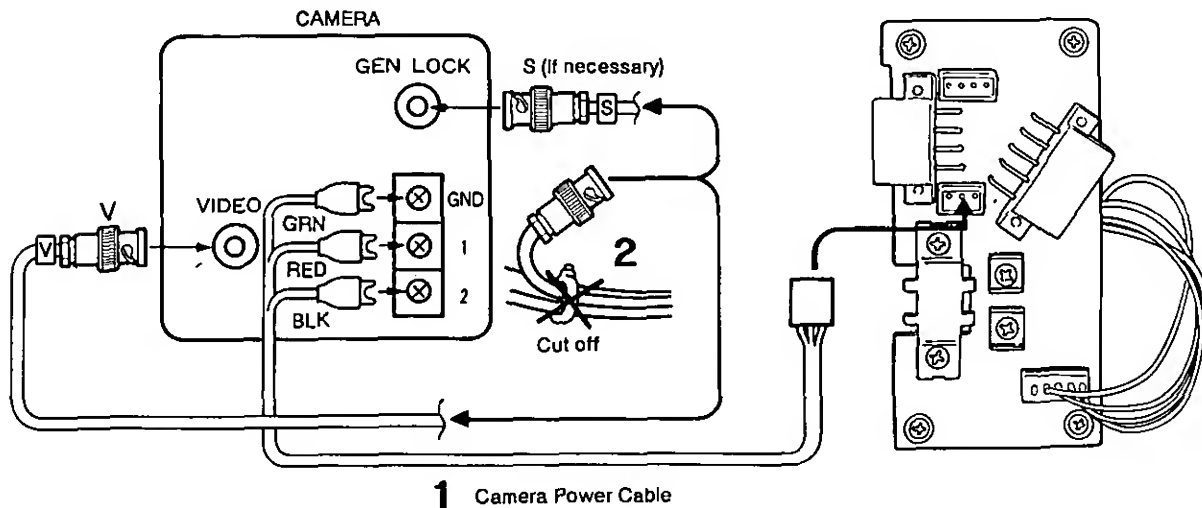
- x: Inhibited combination in size  
 o: Recommended combination in size  
 •: Possible combination but remains much space inside of housing.

### Caution:

The Fan/Heater unit (WV-7141) should be required in consideration of the ambient operating temperature with the camera and the lens.

## CONNECTION OF CAMERA

1. Connect the camera power cable (Provided) to the camera and the Connection Board.
2. Cut off the cable clamp of the co-axial Cables.  
Then connect the BNC cable which is marked (V) to the output of the camera. And if it is necessary, also connect the BNC cable which is marked (S) to the GEN LOCK of the camera for external sync.



### Caution:

Be sure to connect the power cable with the right position of the AC terminal strip on the camera.

Green - GND

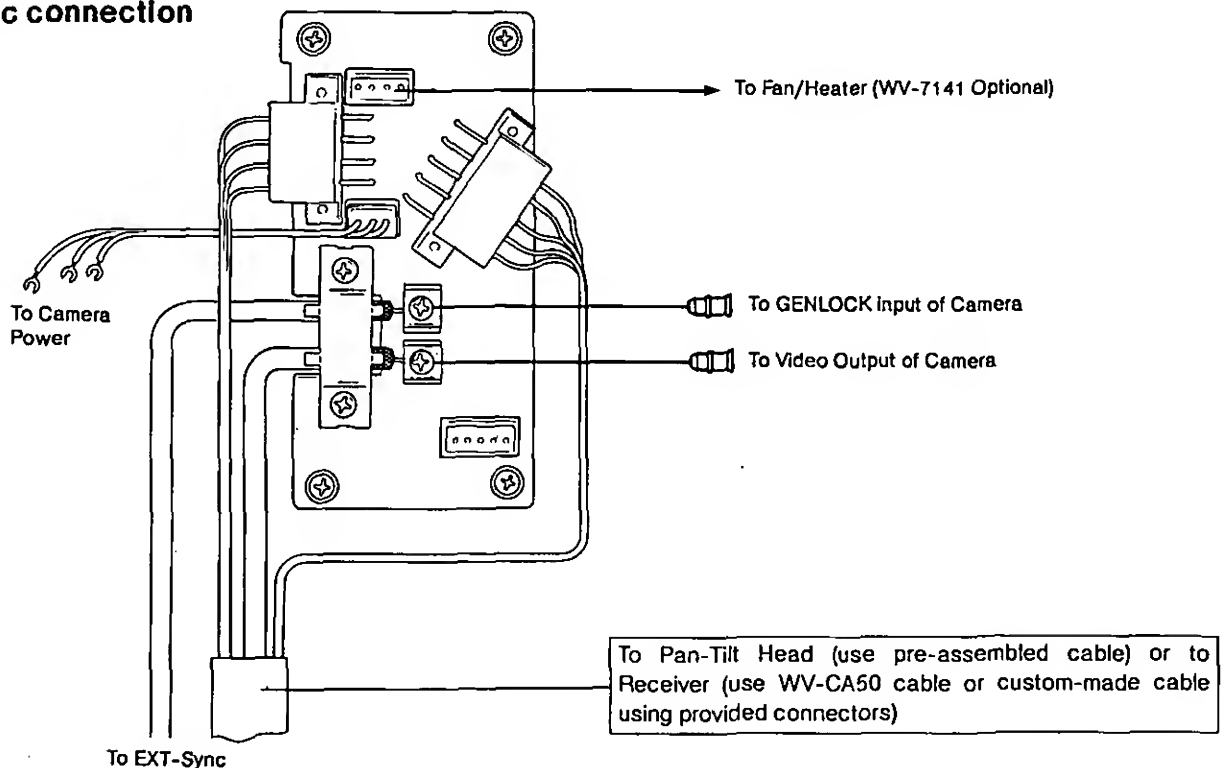
Red - 1

Black - 2

3. Clamp BNC connectors again not to touch the metal part to the electrical components.

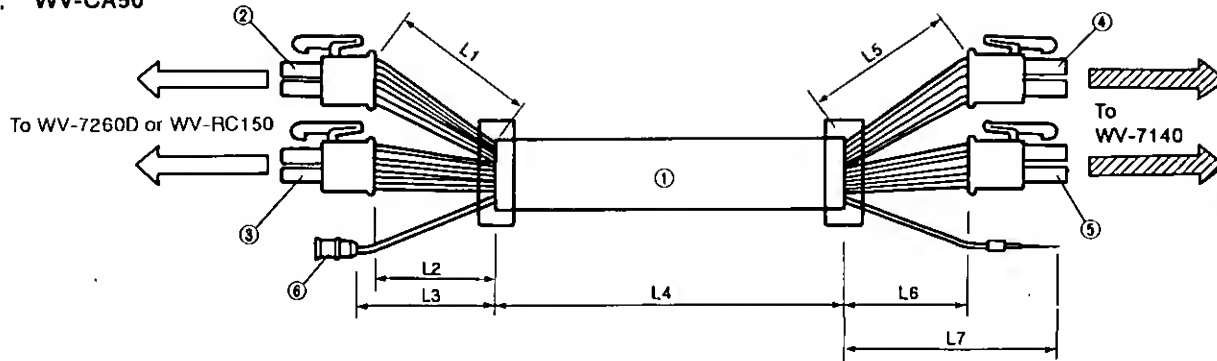
## WIRING OF CABLES

### A. Basic connection



## B. Cable Information

### 1. WV-CA50



- The length of wires. (Approx.)

L1: 2-1/2"      L5: 6"  
 L2: 2"          L6: 6"  
 L3: 12"        L7: 7"  
 L4: 65"

- Parts name

1. 18 wires cable  
 2. 14 pin connector  
 3. 12 pin connector  
 4. 10 pin connector  
 5. 8 pin connector  
 6. BNC connector

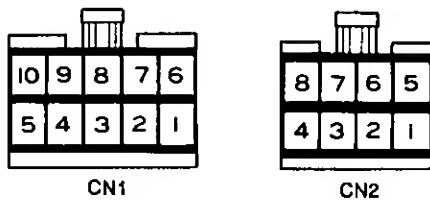
### 2. In case of using the accessory connectors (MX5557P08 and MX5557P10)

Select a multi-conductor cable which meets FR-1 rating with 8 or 11 wires cables for WV-7140. A 11 wires cable is used to extend the cable length.

Connect the 8 or 11 wires cable to the following position of the accessory connectors.

CN Pin No. WV-7140	Usage of Terminal
CN2-1	24V AC CAMERA
CN2-2(3)	FAN HEATER
CN2-5(6)(7)	AC COMMON
CN1-7	DC COMMON
CN1-8	IRIS CONTROL
CN1-9	FOCUS CONTROL
CN1-10	ZOOM CONTROL
CN2-8	GND

- If 11 wires cable are available for WV-7140 connect the remained 3 wires to the ( ) position.



The accessory connectors view from wiring side.

- The length of the cable is determined by the chart below. (The system should be operated by 24V AC and the power consumption should have less than 11W for the camera, 44W for WV-7141.)

Model		WV-7140	
Copper wire gauge AWG No.		Number of Conductors	
		8 wires	11 wires
#24	ft	26	60
	m	6	15
#22	ft	40	95
	m	10	25
#20	ft	60	150
	m	15	45
#18	ft	100	250
	m	30	70

- The above lengths are approximate.
- When the camera housing is mounted on the Pan/Tilt Head WV-7260D, refer to the operating instructions of it.

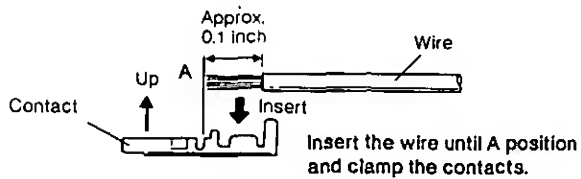
#### CAUTION:

CONNECT TO 24V AC CLASS 2 SUPPLY ONLY.

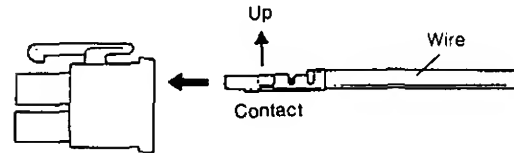
**Caution:** To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used for the cable for AC 24V Input Terminal.

## • How to assemble the cable

1. Strip back the cable jacket no more than 0.1 inches (3 mm) and separate the individual conductors.
2. Prepare the individual conductors for soldering or clamping. If clamping, use MOREX tool part number 57027-5000 (for UL-style cable UL1015) or 57026-5000 (for UL-Style cable UL1007)



3. After soldering or clamping the contacts, push them into the proper holes in the connector housing until they snap in place.



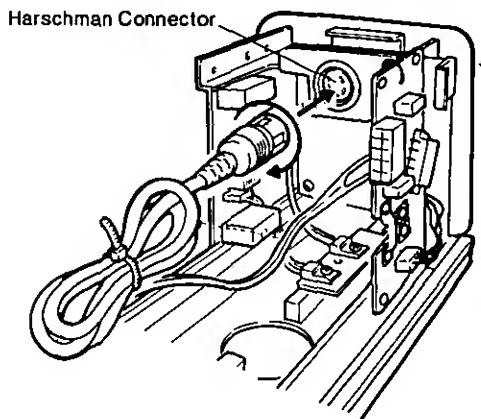
### Caution:

- Clamping the contact is a one-time procedure.
- CONNECT TO 24V AC CLASS 2 SUPPLY ONLY.

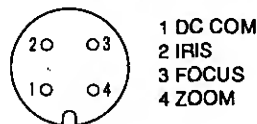
**Caution:** To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used for the cable for AC 24V Input Terminal.

## INSTALLATION OF ZOOM LENS (WV-LZ81/6)

1. Connect the cable from the lens to female Harschman connector on the rear panel.
2. When a zoom lens of other brand is used, change the connector with the provided Harschman connector. Refer to the pin configuration.



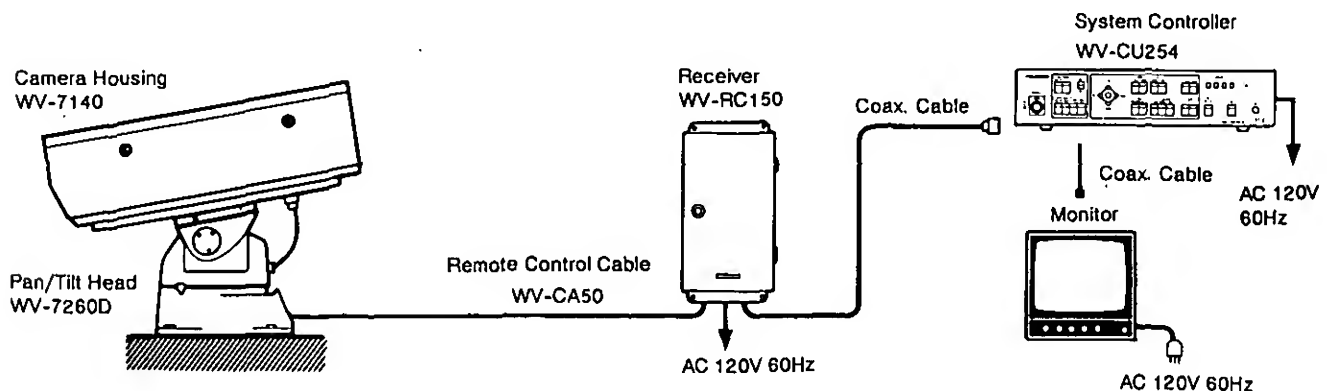
### Pin configuration



### CAUTION:

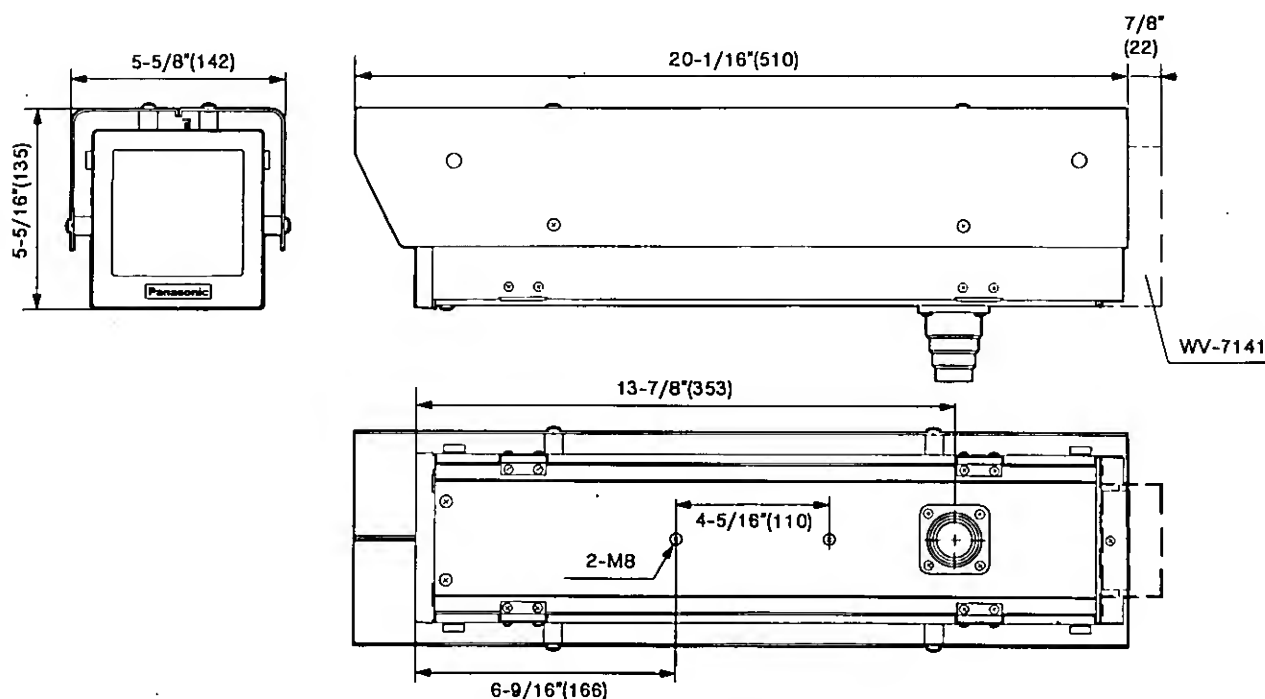
- Clamp the cables not to contact with the heater unit or other electrical components.

## TYPICAL SYSTEM CONNECTIONS





## OUTLINE DRAWING



## SPECIFICATIONS

Power source:	24V AC 60 Hz
Mounting:	From bottom
Pan/tilt head:	WV-7260D (Optional)
System controller:	WV-CU254 (Optional)
Receiver:	WV-RC150 (Optional)
Ambient operating temperature:	LOW: $-22^{\circ}\text{F}$ ( $-30^{\circ}\text{C}$ ) when WV-7141 is used with. HIGH: Refer to the specifications of the camera and the lens.
Weight:	Approx. 6.6 lbs (3 kg)
Dimensions:	5-5/8\"(W) x 5-5/16\"(H) x 20-1/16\"(D) (Approx.) [142(W) x 135(H) x 510(D) mm]

## STANDARD ACCESSORIES (Supplied)

Camera Holding Screw ..... 1 pc. (Plastic screw)	Lens Connector [Part No. YWMAS4100] ..... 1 pc.
Camera Mounting screw ..... 1 pc. (with insulation washer)	Power Indicator Masking Label ..... 1 pc.
Clamping wire ..... 4 pcs.	Power Cable for 24V AC Camera ..... 1 pc.
	Connector [MX5557P08] ..... 1 pc.
	[MX5557P10] ..... 1 pc.

# Panasonic

## Communications & Systems Company

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